

A NEW LEAF-SPOT DISEASE OF POLYGONUM PERSICARIA

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(WITH PLATE 10)

In July of 1914 and August of 1916, Mr. W. W. Jones, botanist in the department of agricultural investigations, American Smelting & Refining Company, made collections of *Polygonum persicaria* L. showing an apparently new leaf-spot. An examination of the literature indicates that this leaf-spot disease has not been previously noted and that the organism is an undescribed species of *Septoria* quite different from the species of *Septoria* described as occurring upon *Polygonum* or related genera. From field observations it would seem that this type of leaf-spot is rather rare, only two small collections having been made as noted above. The description of the species is as follows:

***Septoria persicariae* sp. nov.**

Maculis amphigenis subcircularibus, 1-8 mm. diam., sparsis v. saepe confluentibus, rubiginoso-brunneis dein centro griseo-brunneis v. griseis, anguste purpureo v. violaceo-limbatis; *pycnidiis* amphigenis, parvis v. numerosis, sparsis v. aggregatis, immersis, membranaceis, brunneis v. atro-brunneis, globosis 50-120 μ diam., osteolo depressis v. parvulo pertusis; *sporulis* hyalinis filiformibus utrinque obtusis v. attenuatis v. saepe uno apice latoribus altero gradatim attenuatis (sub-clavulatis), rectis, curvis v. saepe flexuosis, continuis v. indistincte pluriseptatis, saepe minute guttulatis, 17-60 \times 1-3 μ , cirrose expulsis; basidiis non vivis.

Hab. in foliis vivis *Polygoni persicariae*, Salt Lake Valley, Utah, Amer. Bor. (Wyatt W. Jones).

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